

Please type a plus sign (+) inside this box



PTO/SB/05 (08-00)

Approved for use through 10/31/2000. OMB 0651-0032  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

02486.0078.NPUS01

First Inventor

Cynthia B. Robinson

Title

COMBINATION OF DEHYDROEPIANDROSTERONE OR  
DEHYDROEPIANDROSTERONE-SULFATE WITH AN ANTI-  
IGG ANTIBODY FOR TREATMENT OF ASTHMA OR  
CHRONIC OBSTRUCTIVE PULMONARY DISEASE

Express Mail

EL615430379US

22278 U.S. PTO  
10/698073



## APPLICATION ELEMENTS

See MPEP Chapter 600 concerning utility patent application contents.

### ADDRESS TO:

Commissioner for Patents  
Mail Stop: Patent Application  
Alexandria, VA 22313-1450

1. ☒ Fee Transmittal Form (PTO/SB/17)  
(Submit an original, and a duplicate for fee processing)
2. ☒ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification [Total Pages **66** ]  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross reference to Related Applications
  - Statement Regarding Fed Sponsored R & D
  - Reference to sequence listing, a table,  
or a computer program listing appendix
  - Background of the invention
  - Brief Summary of the Invention
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets **19** ]
5. ☐ Oath or Declaration [Total Pages  ]
  - a. ☐ Newly executed (original or copy)
  - b. ☐ Copy from a prior application (37 CFR 1.63 (d))  
(for continuational divisional with Box 17 completed)
    - i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR  
1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or  
Computer Program (Appendix)
8. ☐ Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
  - a. ☐ Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i. ☐ CD-ROM or CD-R (2 copies); or
    - ii. ☐ paper
- c. ☐ Statements verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement ☐ Power of  
(when there is an assignee) Attorney
11. ☐ English Translation Document (if applicable)
12. ☐ Information disclosure ☐ Copies of IDS  
Statement (IDS)/PTO-1449 Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16. ☒ Other. Check for **\$385.00...**

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.:  /

Prior application information: Examiner  Group I Art Unit:

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 18. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label **27194** or ☐ Correspondence address below

Name **Howrey Simon Arnold & White, LLP**

Address **301 Ravenswood Avenue**

**Box 34**

City **Menlo Park**

State

**CA**

Zip Code

**94025**

Country

**USA**

Telephone

**(650) 463 8109**

Fax

**(650) 463 8400**

NAME (Print/Type)

**Albert P. Halluin/Robin C. Chiang**

Registration Nos.

**25,227/46,619**

Signature

Date

**October 29, 2003**

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**FEE TRANSMITTAL  
For FY 2003**

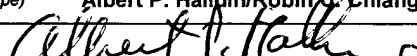
Patent fees are subject to annual revision.

**Complete if Known**

Application Number	Not Yet Assigned
Filing Date	October 29, 2003
First Named Inventor	Cynthia B. Robinson
Examiner Name	Not Yet Assigned
Group Art Unit	Not Yet Assigned
Attorney Docket No.	02496.0078.NPUS01

**TOTAL AMOUNT OF PAYMENT (\$)** **385.00**

METHOD OF PAYMENT					FEE CALCULATION (continued)																																																																																																																																																																																																				
<b>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:</b> Deposit Acct. No. <span style="border: 1px solid black; padding: 2px;">08-3038</span> Deposit Account Name <span style="border: 1px solid black; padding: 2px;">Howrey Simon Arnold &amp; White, LLP</span> <input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27					<b>3. ADDITIONAL FEES</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee</th> <th>Entity Fee</th> <th>Small Fee</th> <th>Entity Fee</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td>_____</td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td>_____</td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td>_____</td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for <i>ex parte</i> reexamination</td><td>_____</td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td>_____</td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td>_____</td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td>_____</td></tr> <tr><td>116</td><td>420</td><td>216</td><td>210</td><td>Extension for reply within second month</td><td>_____</td></tr> <tr><td>117</td><td>950</td><td>217</td><td>475</td><td>Extension for reply within third month</td><td>_____</td></tr> <tr><td>118</td><td>1,480</td><td>218</td><td>740</td><td>Extension for reply within fourth month</td><td>_____</td></tr> <tr><td>128</td><td>2,010</td><td>228</td><td>1,005</td><td>Extension for reply within fifth month</td><td>_____</td></tr> <tr><td>119</td><td>330</td><td>219</td><td>165</td><td>Notice of Appeal</td><td>_____</td></tr> <tr><td>120</td><td>330</td><td>220</td><td>165</td><td>Filing a brief in support of an appeal</td><td>_____</td></tr> <tr><td>121</td><td>290</td><td>221</td><td>145</td><td>Request for oral hearing</td><td>_____</td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td>_____</td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable</td><td>_____</td></tr> <tr><td>141</td><td>1,330</td><td>241</td><td>665</td><td>Petition to revive - unintentional</td><td>_____</td></tr> <tr><td>142</td><td>1,330</td><td>242</td><td>665</td><td>Utility issue fee (or reissue)</td><td>_____</td></tr> <tr><td>143</td><td>480</td><td>243</td><td>240</td><td>Design issue fee</td><td>_____</td></tr> <tr><td>144</td><td>640</td><td>244</td><td>320</td><td>Plant issue fee</td><td>_____</td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td>_____</td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional applications</td><td>_____</td></tr> <tr><td>126</td><td>180</td><td>126</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td>_____</td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td>_____</td></tr> <tr><td>146</td><td>770</td><td>246</td><td>385</td><td>Filing a submission after final rejection (37 CFR § 1.129(a))</td><td>_____</td></tr> <tr><td>149</td><td>770</td><td>249</td><td>385</td><td>For each additional invention to be examined (37 CFR § 1.129(b))</td><td>_____</td></tr> <tr><td>179</td><td>770</td><td>279</td><td>385</td><td>Request for Continued Examination (RCE)</td><td>_____</td></tr> <tr><td>169</td><td>900</td><td>169</td><td>900</td><td>Request for expedited examination of a design application</td><td>_____</td></tr> <tr> <td colspan="4">Other fee (specify) _____</td> <td></td> <td></td> </tr> <tr> <td colspan="4">* Reduced by Basic Filing Fee Paid</td> <td></td> <td></td> </tr> <tr> <td colspan="5" style="text-align: right;"><b>SUBTOTAL (3) (\$)</b></td> <td></td> </tr> </tbody> </table>					Large Fee	Entity Fee	Small Fee	Entity Fee	Fee Description	Fee Paid	105	130	205	65	Surcharge - late filing fee or oath	_____	127	50	227	25	Surcharge - late provisional filing fee or cover sheet	_____	139	130	139	130	Non-English specification	_____	147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	_____	112	920*	112	920*	Requesting publication of SIR prior to Examiner action	_____	113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	_____	115	110	215	55	Extension for reply within first month	_____	116	420	216	210	Extension for reply within second month	_____	117	950	217	475	Extension for reply within third month	_____	118	1,480	218	740	Extension for reply within fourth month	_____	128	2,010	228	1,005	Extension for reply within fifth month	_____	119	330	219	165	Notice of Appeal	_____	120	330	220	165	Filing a brief in support of an appeal	_____	121	290	221	145	Request for oral hearing	_____	138	1,510	138	1,510	Petition to institute a public use proceeding	_____	140	110	240	55	Petition to revive - unavoidable	_____	141	1,330	241	665	Petition to revive - unintentional	_____	142	1,330	242	665	Utility issue fee (or reissue)	_____	143	480	243	240	Design issue fee	_____	144	640	244	320	Plant issue fee	_____	122	130	122	130	Petitions to the Commissioner	_____	123	50	123	50	Petitions related to provisional applications	_____	126	180	126	180	Submission of Information Disclosure Stmt	_____	581	40	581	40	Recording each patent assignment per property (times number of properties)	_____	146	770	246	385	Filing a submission after final rejection (37 CFR § 1.129(a))	_____	149	770	249	385	For each additional invention to be examined (37 CFR § 1.129(b))	_____	179	770	279	385	Request for Continued Examination (RCE)	_____	169	900	169	900	Request for expedited examination of a design application	_____	Other fee (specify) _____						* Reduced by Basic Filing Fee Paid						<b>SUBTOTAL (3) (\$)</b>					
Large Fee	Entity Fee	Small Fee	Entity Fee	Fee Description	Fee Paid																																																																																																																																																																																																				
105	130	205	65	Surcharge - late filing fee or oath	_____																																																																																																																																																																																																				
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	_____																																																																																																																																																																																																				
139	130	139	130	Non-English specification	_____																																																																																																																																																																																																				
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	_____																																																																																																																																																																																																				
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	_____																																																																																																																																																																																																				
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	_____																																																																																																																																																																																																				
115	110	215	55	Extension for reply within first month	_____																																																																																																																																																																																																				
116	420	216	210	Extension for reply within second month	_____																																																																																																																																																																																																				
117	950	217	475	Extension for reply within third month	_____																																																																																																																																																																																																				
118	1,480	218	740	Extension for reply within fourth month	_____																																																																																																																																																																																																				
128	2,010	228	1,005	Extension for reply within fifth month	_____																																																																																																																																																																																																				
119	330	219	165	Notice of Appeal	_____																																																																																																																																																																																																				
120	330	220	165	Filing a brief in support of an appeal	_____																																																																																																																																																																																																				
121	290	221	145	Request for oral hearing	_____																																																																																																																																																																																																				
138	1,510	138	1,510	Petition to institute a public use proceeding	_____																																																																																																																																																																																																				
140	110	240	55	Petition to revive - unavoidable	_____																																																																																																																																																																																																				
141	1,330	241	665	Petition to revive - unintentional	_____																																																																																																																																																																																																				
142	1,330	242	665	Utility issue fee (or reissue)	_____																																																																																																																																																																																																				
143	480	243	240	Design issue fee	_____																																																																																																																																																																																																				
144	640	244	320	Plant issue fee	_____																																																																																																																																																																																																				
122	130	122	130	Petitions to the Commissioner	_____																																																																																																																																																																																																				
123	50	123	50	Petitions related to provisional applications	_____																																																																																																																																																																																																				
126	180	126	180	Submission of Information Disclosure Stmt	_____																																																																																																																																																																																																				
581	40	581	40	Recording each patent assignment per property (times number of properties)	_____																																																																																																																																																																																																				
146	770	246	385	Filing a submission after final rejection (37 CFR § 1.129(a))	_____																																																																																																																																																																																																				
149	770	249	385	For each additional invention to be examined (37 CFR § 1.129(b))	_____																																																																																																																																																																																																				
179	770	279	385	Request for Continued Examination (RCE)	_____																																																																																																																																																																																																				
169	900	169	900	Request for expedited examination of a design application	_____																																																																																																																																																																																																				
Other fee (specify) _____																																																																																																																																																																																																									
* Reduced by Basic Filing Fee Paid																																																																																																																																																																																																									
<b>SUBTOTAL (3) (\$)</b>																																																																																																																																																																																																									
<b>2. <input checked="" type="checkbox"/> Payment Enclosed:</b> <input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money <input type="checkbox"/> Other Order																																																																																																																																																																																																									
<b>FEE CALCULATION</b>																																																																																																																																																																																																									
<b>1. BASIC FILING FEE</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>101</td><td>770</td><td>201</td><td>385</td><td>Utility filing fee</td><td>385</td></tr> <tr><td>106</td><td>340</td><td>206</td><td>170</td><td>Design filing fee</td><td></td></tr> <tr><td>107</td><td>530</td><td>207</td><td>265</td><td>Plant filing fee</td><td></td></tr> <tr><td>108</td><td>770</td><td>208</td><td>385</td><td>Reissue filing fee</td><td></td></tr> <tr><td>114</td><td>160</td><td>214</td><td>80</td><td>Provisional filing fee</td><td></td></tr> </tbody> </table>					Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	101	770	201	385	Utility filing fee	385	106	340	206	170	Design filing fee		107	530	207	265	Plant filing fee		108	770	208	385	Reissue filing fee		114	160	214	80	Provisional filing fee																																																																																																																																																																		
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																																				
101	770	201	385	Utility filing fee	385																																																																																																																																																																																																				
106	340	206	170	Design filing fee																																																																																																																																																																																																					
107	530	207	265	Plant filing fee																																																																																																																																																																																																					
108	770	208	385	Reissue filing fee																																																																																																																																																																																																					
114	160	214	80	Provisional filing fee																																																																																																																																																																																																					
<b>SUBTOTAL (1)</b>					<b>(\$)</b> <b>385.00</b>																																																																																																																																																																																																				
<b>2. EXTRA CLAIM FEES</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Total Claims</th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>18</td> <td>-20** = 0</td> <td></td> <td>0</td> </tr> <tr> <td>Independent Claims: 1</td> <td>-3** = 0</td> <td></td> <td>0</td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td></td> <td>0</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td></tr> <tr><td>102</td><td>86</td><td>202</td><td>43</td><td>Independent claims in excess of 3</td></tr> <tr><td>104</td><td>290</td><td>204</td><td>145</td><td>Multiple dependent claim, if not paid</td></tr> <tr><td>109</td><td>86</td><td>209</td><td>43</td><td>** Reissue Independent claims over original patent</td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent</td></tr> </tbody> </table>					Total Claims	Extra Claims	Fee from below	Fee Paid	18	-20** = 0		0	Independent Claims: 1	-3** = 0		0	Multiple Dependent			0	Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	103	18	203	9	Claims in excess of 20	102	86	202	43	Independent claims in excess of 3	104	290	204	145	Multiple dependent claim, if not paid	109	86	209	43	** Reissue Independent claims over original patent	110	18	210	9	** Reissue claims in excess of 20 and over original patent																																																																																																																																																							
Total Claims	Extra Claims	Fee from below	Fee Paid																																																																																																																																																																																																						
18	-20** = 0		0																																																																																																																																																																																																						
Independent Claims: 1	-3** = 0		0																																																																																																																																																																																																						
Multiple Dependent			0																																																																																																																																																																																																						
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description																																																																																																																																																																																																					
103	18	203	9	Claims in excess of 20																																																																																																																																																																																																					
102	86	202	43	Independent claims in excess of 3																																																																																																																																																																																																					
104	290	204	145	Multiple dependent claim, if not paid																																																																																																																																																																																																					
109	86	209	43	** Reissue Independent claims over original patent																																																																																																																																																																																																					
110	18	210	9	** Reissue claims in excess of 20 and over original patent																																																																																																																																																																																																					
<b>SUBTOTAL (2)</b>					<b>(\$)</b>																																																																																																																																																																																																				
**or number previously paid, if greater; For Reissues, see above																																																																																																																																																																																																									

SUBMITTED BY			Complete (if applicable)	
Name (Print/Type)	Albert P. Halluin/Robin A. Chiang	Registration No. (Attorney/Agent)	25,227/46,619	Telephone (650) 463 8109
Signature				Date October 29, 2003

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.